- (b) a polynucleotide encoding the complete polypeptide encoded by the cDNA contained in ATCC Deposit No. 209665.
- 51. (New) The isolated nucleic acid molecule of claim 50 which comprises polynucleotide (a).
- 52. (New) The isolated nucleic acid molecule of claim 50 which comprises polynucleotide (b).
- 53. (New) The nucleic acid molecule of claim 50 wherein said polynucleotide further comprises a heterologous polynucleotide.
- 54. (New) The nucleic acid molecule of claim 53 wherein said heterologous polynucleotide encodes a heterologous polypeptide.
 - 55. (New) A recombinant vector comprising the nucleic acid molecule of claim 50.
- 56. (New) The recombinant vector of claim 55 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 57. (New) A recombinant host cell comprising the nucleic acid molecule of claim 50.
- 58. (New) The recombinant host cell of claim 57 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 59. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 57 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 60. (New) A method for producing a protein, comprising:

- (a) culturing the host cell of claim 58 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
- 61. (New) An isolated nucleic acid molecule comprising a first polynucleotide 90% or more identical to a second polynucleotide selected from the group consisting of:
 - (a) a polynucleotide encoding amino acid residues 1 to 160 of SEQ ID NO:4; and
- (b) a polynucleotide encoding the complete polypeptide encoded by the cDNA contained in ATCC Deposit No. 209665.
- 62. (New) The isolated nucleic acid molecule of claim 61 which further comprises a first polynucleotide 90% or more identical to a second polynucleotide encoding amino acid residues 1 to 160 of SEQ ID NO:4.
- 63. (New) The isolated nucleic acid molecule of claim 62 which further comprises a first polynucleotide 95% or more identical to a second polynucleotide encoding amino acid residues 1 to 160 of SEQ ID NO:4.
- 64. (New) The isolated nucleic acid molecule of claim 61 which further comprises a first polynucleotide 90% or more identical to a second polynucleotide encoding the complete polypeptide encoded by the cDNA contained in ATCC Deposit No. 209665.
- 65. (New) The isolated nucleic acid molecule of claim 64 which further comprises a first polynucleotide 95% or more identical to a second polynucleotide encoding the complete polypeptide encoded by the cDNA contained in ATCC Deposit No. 209665.
- 66. (New) The nucleic acid molecule of claim 61 wherein said polynucleotide further comprises a heterologous polynucleotide.
- 67. (New) The nucleic acid molecule of claim 66 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

- 68. (New) A recombinant vector comprising the nucleic acid molecule of claim 61.
- 69. (New) The recombinant vector of claim 68 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 70. (New) A recombinant host cell comprising the nucleic acid molecule of claim 61.
- 71. (New) The recombinant host cell of claim 70 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 72. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 70 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 73. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 71 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
- 74. (New) An isolated nucleic acid molecule comprising a polynucleotide selected from the group consisting of:
- (a) a polynucleotide encoding amino acid residues n^2 to 160 of SEQ ID NO:4, where n^2 is an integer in the range of 1 to 28;
- (b) a polynucleotide encoding amino acid residues 1 to m² of SEQ ID NO:4, where m² is an integer in the range of 129 to 160; and
- (c) a polynucleotide encoding amino acids n^2 to m^2 of SEQ ID NO:4, where n^2 is an integer from 1 to 28 and m^2 is an integer in the range of 129 to 160.
- 75. (New) The isolated nucleic acid molecule of claim 74 which comprises polynucleotide (a).

- 76. (New) The isolated nucleic acid molecule of claim 74 which comprises polynucleotide (b).
- 77. (New) The isolated nucleic acid molecule of claim 74 which comprises polynucleotide (c).
- 78. (New) The isolated nucleic acid molecule of claim 75 wherein said polynucleotide encodes amino acids 10 to 160 of SEQ ID NO:2.
- 79. (New) The isolated nucleic acid molecule of claim 75 wherein said polynucleotide encodes amino acids 28 to 160 of SEQ ID NO:2.
- 80. (New) The isolated nucleic acid molecule of claim 76 wherein said polynucleotide encodes amino acids 1 to 150 of SEQ ID NO:2.
- 81. (New) The isolated nucleic acid molecule of claim 76 wherein said polynucleotide encodes amino acids 1 to 140 of SEQ ID NO:2.
- 82. (New) The isolated nucleic acid molecule of claim 77 wherein said polynucleotide encodes amino acids 28 to 129 of SEQ ID NO:2.
- 83. (New) The nucleic acid molecule of claim 74 wherein said polynucleotide further comprises a heterologous polynucleotide.
- 84. (New) The nucleic acid molecule of claim 83 wherein said heterologous polynucleotide encodes a heterologous polypeptide.
 - 85. (New) A recombinant vector comprising the nucleic acid molecule of claim 74.
- 86. (New) The recombinant vector of claim 85 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.



- 87. (New) A recombinant host cell comprising the nucleic acid molecule of claim 74.
- 88. (New) The recombinant host cell of claim 87 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 89. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 87 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 90. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 88 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
- 91. (New) An isolated nucleic acid molecule comprising a polynucleotide selected from the group consisting of:
 - (a) a polynucleotide encoding amino acid residues 57 to 64 of SEQ ID NO:4;
 - (b) a polynucleotide encoding amino acid residues 72 to 77 of SEQ ID NO:4;
 - (c) a polynucleotide encoding amino acid residues 99 to 105 of SEQ ID NO:4;
 - (d) a polynucleotide encoding amino acid residues 121 to 128 of SEQ ID NO:4;
 - (e) a polynucleotide encoding amino acid residues 19 to 27 of SEQ ID NO:4;
 - (f) a polynucleotide encoding amino acid residues 30 to 38 of SEQ ID NO:4;
 - (g) a polynucleotide encoding amino acid residues 40 to 48 of SEQ ID NO:4;
 - (h) a polynucleotide encoding amino acid residues 58 to 67 of SEQ ID NO:4;
 - (i) a polynucleotide encoding amino acid residues 105 to 113 of SEQ ID NO:4;
 - (j) a polynucleotide encoding amino acid residues 129 to 137 of SEQ ID NO:4;
 - (k) a polynucleotide encoding amino acid residues 151 to 159 of SEQ ID NO:4; and
 - (l) a polynucleotide encoding a fragment of amino acid residues 1 to 160 of SEQ ID NO:4, wherein said fragment modulates immune cell proliferation and differentiation.



- 92. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (a).
- 93. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (b).
- 94. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (c).
- 95. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (d).
- 96. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (e).
- 97. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (f).
- 98. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (g).
- 99. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (h).
- 100. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (i).
- 101. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (j).
- 102. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (k).

- 103. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (1).
- 104. (New) The isolated nucleic acid molecule of claim 91 which comprises polynucleotide (a) and (k).
- 105. (New) The nucleic acid molecule of claim 91 wherein said polynucleotide further comprises a heterologous polynucleotide.
- 106. (New) The nucleic acid molecule of claim 105 wherein said heterologous polynucleotide encodes a heterologous polypeptide.
 - 107. (New) A recombinant vector comprising the nucleic acid molecule of claim 91.
- 108. (New) The recombinant vector of claim 107 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 109. (New) A recombinant host cell comprising the nucleic acid molecule of claim
- 110. (New) The recombinant host cell of claim 109 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 111. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 110 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 112. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 110 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and

- (b) recovering the protein.
- 113. (New) An isolated nucleic acid molecule comprising at least 30 contiguous nucleotides of nucleotide sequence 1 to 850 of SEQ ID NO:3, or the complementary strand thereto.
- 114. (New) The isolated nucleic acid molecule of claim 113 wherein said nucleic acid molecule comprises at least 30 contiguous nucleotides of nucleotide sequence 1 to 850 of SEQ ID NO:3.
- 115. (New) The isolated nucleic acid molecule of claim 113 wherein-said nucleic acid molecule comprises at least 30 contiguous nucleotides of the complementary strand of nucleotide sequence 1 to 850 of SEQ ID NO:3.
- 116. (New) The isolated nucleic acid molecule of claim 114 wherein said nucleic acid molecule comprises at least 50 contiguous nucleotides of nucleotide sequence 1 to 850 of SEQ ID NO:3.
- 117. (New) The isolated nucleic acid molecule of claim 415-wherein said nucleic acid molecule comprises at least 50 contiguous nucleotides of the complementary strand of nucleotide sequence 1 to 850 of SEQ ID NO:3.
- 118. (New) The isolated nucleic acid molecule of claim 114 wherein said nucleic acid comprises SEQ ID NO:3.
- 119. (New) The isolated nucleic acid molecule of claim 115 wherein said nucleic acid molecule comprises the complementary strand of the nucleotide sequence of SEQ ID NO:3.
- 120. (New) The nucleic acid molecule of claim 117 which further comprises a heterologous nucleotide sequence.

- 121. (New) The nucleic acid molecule of claim 120 wherein said heterologous nucleotide sequence encodes a heterologous polypeptide.
 - 122. (New) A recombinant vector comprising the nucleic acid molecule of claim 113.
- 123. (New) The recombinant vector of claim 122 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
- 124. (New) A recombinant host cell comprising the nucleic acid molecule of claim 113.
- 125. (New) The recombinant host cell of claim 124-wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 126. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 124 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 127. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 125 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
- 128. (New) An isolated nucleic acid molecule comprising at least 30 contiguous nucleotides of the cDNA in ATCC Deposit No. 209665.
- 129. (New) The isolated nucleic acid molecule of claim 128 wherein said nucleic acid molecule comprises at least 50 contiguous nucleotides of the cDNA in ATCC Deposit No. 209665.



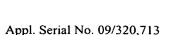
- 130. (New) The nucleic acid molecule of claim. 128 wherein said polynucleotide further comprises a heterologous polynucleotide.
- 131. (New) The isolated nucleic acid molecule of claim 130 wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 132. (New) A recombinant vector comprising the isolated nucleic acid molecule of claim 128.
- 133. (New) The recombinant vector of claim 132 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
- 134. (New) A recombinant host cell comprising the isolated nucleic acid molecule of claim 128.
- 135. (New) The recombinant host cell of claim 134 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 136. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 134 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 137. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 135 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
- 138. (New) An isolated nucleic acid molecule comprising a polynucleotide which hybridizes to the complement of nucleotides 1 to 860 of SEQ ID NO:3 wherein said hybridization occurs under the conditions consisting of hybridization of said polynucleotide in a buffer consisting of 50% formamide, 5XSSC, 50mM sodium phosphate (pH 7.6), 5X

Denhardt's solution, 10% dextran sulfate, and 20 μ g/ml denatured, sheared salmon sperm DNA and wash in a solution consisting of at 0.1XSSC at 65°C.

- 139. (New) The nucleic acid molecule of claim 138 wherein said polynucleotide further comprises a heterologous nucleic acid sequence.
- 140. (New) The nucleic acid molecule of claim 139-wherein said heterologous nucleic acid sequence encodes a heterologous polypeptide.
 - 141. (New) A recombinant vector comprising the nucleic acid molecule of claim 138,
- 142. (New) The recombinant vector of claim 141 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
- 143. (New) A recombinant host cell comprising the nucleic acid molecule of claim 138.
- 144. (New) The recombinant host cell of claim 143 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 145. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 143 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 146. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 144 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
- 147. (New) An isolated nucleic acid molecule comprising a polynucleotide which hybridizes to the cDNA contained in ATCC Deposit No. 209665 wherein said hybridization

occurs under the conditions consisting of hybridization in a buffer consisting of 50% formamide, 5XSSC, 50mM sodium phosphate (pH 7.6), 5X Denhardt's solution, 10% dextran sulfate, and 20 μ g/ml denatured, sheared salmon sperm DNA and wash in a solution consisting of at 0.1XSSC at 65°C.

- 148. (New) The nucleic acid molecule of claim 147 wherein said polynucleotide further comprises a heterologous polynucleotide.
- 149. (New) The nucleic acid molecule of claim 148 wherein said heterologous polynucleotide encodes a heterologous polypeptide.
 - 150. (New) A recombinant vector comprising the nucleic acid molecule of claim 147.
- 151. (New) The recombinant vector of claim 150 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
- 152. (New) A recombinant host cell comprising the nucleic acid molecule of claim 147.
- 153. (New) The recombinant host cell of claim 152 wherein the nucleic acid molecule is operably associated with a heterologous regulatory sequence that controls gene expression.
 - 154. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 152 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein.
 - 155. (New) A method for producing a protein, comprising:
- (a) culturing the host cell of claim 153 under conditions suitable to produce a protein encoded by the nucleic acid molecule; and
 - (b) recovering the protein. --



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